PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2007/017133 03.08.2006 31.07.2007 International Patent Classification (IPC) or both national classification and IPC INV. G06F19/00 Applicant SMITHS MEDICAL MD, INC. This opinion contains indications relating to the following items: Box⁻No. I Basis of the opinion ☑ Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Date of completion of **Authorized Officer** Name and mailing address of the ISA: this opinion European Patent Office see form Huber, Alexander D-80298 Munich

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2007/017133

_	Во	x No.	. I Basis o	of the opi	nion		-						
1.	Wit	With regard to the language, this opinion has been established on the basis of:											
٠	☒	the	internationa	ıl applicati	on in the la	nguage in	which it	was file	ed				
			anslation of poses of into						language	of a transla	ition furnishe	ed for the	
2.			s opinion ha or notified to						tification	of an obvio	ous mistake	authoriz	ed
3.	Wit nec	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:											
	a. t	уре с	of material:	÷		:		1			•		
			a sequence	listing		•	,				_		
			table(s) rela	ted to the	sequence	listing							•
	b. f	orma	nt of materia	l:									
			on paper	•									
		□ i	in electronic	form									
	c. t	ime d	of filing/furni	shing:		•			<i>.</i>				
			contained in	the inter	national app	plication as	filed.						
			filed togethe	er with the	internation	al applicati	on in ele	ectronic	form.		•	•	
			furnished su	ıbsequent	ly to this Aı	uthority for	the purp	oses o	f search.				
		•					,						
4.		has cop	been filed	or furnished all to that	ed, the required in the apple	uired staten	nents th	at the ir	nformation	n in the subs	dor table rel sequent or a cation as file	dditional	reto
5.	Ad	dition	ial commen	ts:	-				*				
				. t								,	•
=	Во	x No	. II Priorii	y									
1.	×	doe req	es not have uired, a trar	in its poss Islation of	ession à co that earlier	opy of the e application	earlier a _l n. This c	pplication	on whose has never	priority has	Searching Abeen claims n establishe ate.	ed or, whe	ere
2.		has	s opinion has been found g date indic	invalid (Rules 43bis	s.1 and 64.1	1). Thus	for the	purposes	e to the fac of this opin	t that the pri ion, the inte	ority clain rnational	n .

3. Additional observations, if necessary:

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International application No. PCT/US2007/017133

	x No. III Non-establishment of opinion with regard to novelty, inventive step and industrial blicability
The obv	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non rious), or to be industrially applicable have not been examined in respect of
	the entire international application
\boxtimes	claims Nos. <u>5, 17, 19, 20</u>
bec	cause:
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
□·	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinio could be formed (specify):
×.	no international search report has been established for the whole application or for said claims Nos. $5, 17, 19, 20$
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	□ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 <i>ter</i> .1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details

	Bo	x No. IV	Lack of unity of	invention								
1.			onse to the invitatio ble time limit:	n (Form P	Form PCT/ISA/206) to pay additional fees, the applicant has, within the							
			paid additional fee	s		•						
	☐ paid additional fees under protest a					nd, where applicable, the protest fee						
-			paid additional fee	s under pr	otest but the	test but the applicable protest fee was not paid						
			not paid additional	fees				•		. '		
2.			uthority found that the olicant to pay addition		ment of unit	y of invention is not c	omplied with	and chose	not to	invite		
3.	Thi	s Author	rity considers that th	ie requiren	nent of unit	y of invention in accor	rdance with F	Rule 13.1, 1	3.2 an	d 13.3 is		
	□ ·	complied	d with	•								
	\boxtimes	not com	plied with for the fol	lowing rea	sons:				•			
		see se	parate sheet			•		•				
4.	Consequently, this report has been established in respect of the following parts of the international application:											
		all parts						•				
	\boxtimes	the parts	s relating to claims I	Nos. <u>1-4, 6</u>	6-9, 10-16,	<u>18</u>						
			٠.			• • • • • • • • • • • • • • • • • • •	<u>.</u>					
		x No. V lustrial a				bis.1(a)(i) with regards		inventive	step o)r		
1.	Sta	tement			;							
	No	velty (N)		Yes: No:	Claims Claims	2-4, 6-9, 11-16, 18 1,10			÷			
	lnv	entive st	tep (IS)	Yes: No:	Claims Claims	<u>1-4, 6-9, 10-16, 18</u>						
	Ind	ustrial a	pplicability (IA)	Yes: No:	Claims Claims	1-4, 6-9, 10-16, 18						
2	Cit	ations ai	nd explanations	•								

see separate sheet

Re Item IV Lack of unity of invention

The application appears to lack unity within the meaning of Rule 13.1 PCT, since it does not relate to one invention only or to a group of inventions so linked as to form a single general inventive concept.

The application contains the following two separate inventions:

The first invention, claims 1-4, 6-9, 10-16, 18, relates to the modification of a patient specific protocol for the programming of a medical infusion pump, by providing a user interface configured to allow user adjustments of the patient specific pump parameters.

The second invention, claims 1, 5, 17, 19-20, relates to executability of a patient specific protocol on a medical infusion pump, by formatting the patient specific protocol to correspond to the format understood by the medical infusion pump.

These two inventions try to solve two different, independent problems and the only common general concept linking them together is the subject-matter of claims 1 and 10. However, this common concept is not novel and not inventive, see the documents cited in the search report (and Item V below), thus the requirement for unity of invention referred to in Rule 13.1 PCT is not fulfilled.

Independent claims 1 and 10, and the dependent claims 2-4, 6-9, 11-16, 18, constituting the invention first mentioned in the claims, and representing the main invention of the application, have thus been searched.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents:
 - D1: WO 96/20745 A (ABBOTT LAB [US]) 11 July 1996 (1996-07-11)
 - D2: US 2003/163088 A1 (BLOMQUIST MICHAEL L [US]) 28 August 2003 (2003-08-28)
 - D3: US-A-5 935 099 (PETERSON THOMAS L [US] ET AL) 10 August 1999 (1999-08-10)
 - D4: GB-A-2 312 055 (BAXTER INT [US]) 15 October 1997 (1997-10-15)

- D5: WO 2005/056083 A (SMITHS MEDICAL MD INC [US]; BLOMQUIST MICHAEL L [US]) 23 June 2005 (2005-06-23)
- D6: WO 2006/073400 A (ADVANCED MEDICAL OPTICS INC [US]; CLAUS MICHAEL J [US]) 13 July 2006 (2006-07-13)
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 and 10 is not new in the sense of Article 33(2) PCT over prior art document D1 (see D1 at the passages cited in the search report).

The features added by the dependent claims are either known from D1 or form part of the general knowledge of the person skilled in the art. They do not appear to comprise anything which would go beyond the prior art to an extend that it could be considered as involving an inventive step (Article 33(3) and Rules 64 and 65 PCT).

- Notwithstanding what has been said above, the subject-matter of claims 1 and 10 is also not new over prior art document D2 (see D2 at paragraphs 28, 118-123, 125-129, 225, 228, and Figures 12 and 13).
 - The features added by the dependent claims are either known from D2 or form part of the general knowledge of the person skilled in the art. They do not appear to comprise anything which would go beyond the prior art to an extend that it could be considered as involving an inventive step.

This applies likewise in view of prior art document D3 (see D3 in particular at col.21 l.41-45), D4 (see D4 at claims 1-18, in particular claims 12-18, and page 9 l.15 - p.11 l.4) or also D5 (see D5 at Figures 1 and 3, the abstract, the summary and in particular p.4 l.19 - p.5 l.27).

Concerning the subject-matter added by dependent claims 4 and 13, it is additionally noted that adjustable slider bars were very well-known at time of priority of the application, see e.g. document D6 (see D6 at the abstract, the summary, Figures 3 and 5, paragraphs 25,27,28), and that it therefore not provides an inventive step.

Final remarks

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2007/017133

It is not at present apparent which part of the application could serve as a basis for a new claim which might meet the requirements of the PCT. In case the applicant regards some particular matter as fulfilling the requirements of the PCT, and/or when entering the European Phase, it is appropriate to file new claims which take account of the above comments. The applicant should in addition indicate the difference of the subject-matter of the new claims vis-à-vis the state of the art and the significance thereof, in particular in respect of the technical effect provided by said difference. He should furthermore give an indication of the objective technical problem to be solved in view of the prior art (based on the technical effect provided by the differences), i.e. the aim and task of modifying or adapting the prior art to provide the said technical effect. Some further information needs to be provided to demonstrate why such a modification would not be obvious to the person skilled in the art, taking into account of the prior art and the common general knowledge. This might be shown e.g. by indicating advantageous and unexpected effects of the next version of the claimed subjectmatter.